

Turf Health / NDVI Scan

Multispectral vegetation data that flags turf stress days before it is visible from the cart path.

CLIENT	SCOPE	FLIGHT DATE	FLOWN
Sample Golf Club	Holes 1-18 + practice	June 26, 2026	Dawn, before play
SENSOR	INDEX	RESOLUTION	DELIVERED
5-band multispectral	NDVI + RGB reference	1.2 in/px	June 30, 2026

What the sensor sees that eyes cannot

Stressed turf reflects light differently before it discolors. NDVI compares near-infrared and red reflectance per pixel, so drought stress, disease pressure, and irrigation gaps show up while the turf still looks green from the ground. Flown at dawn before play, one pass covers every hole at consistent light.

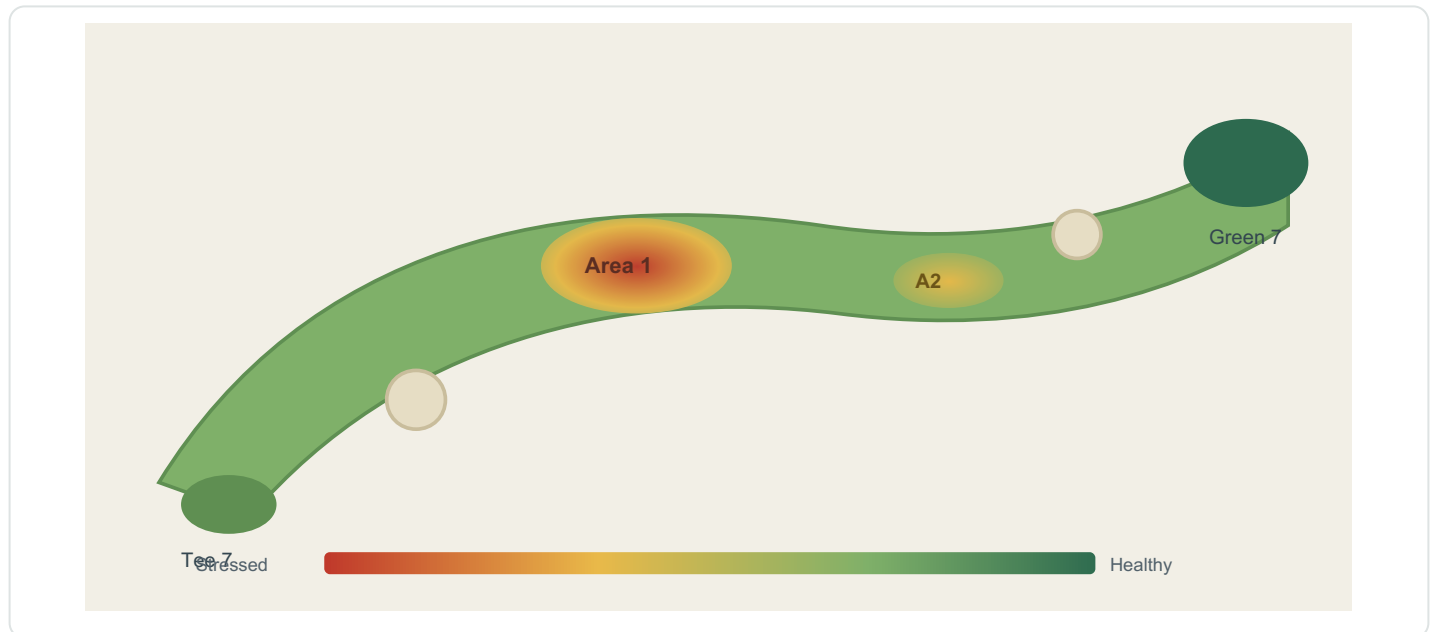


Figure 1 (sample): NDVI composite, Hole 7. Warm colors indicate reduced vigor against healthy fairway turf. Actual deliverables include the full-course NDVI mosaic, per-hole tiles, and RGB reference imagery.

Findings and Follow-up

Area	Location	Approx. Size	Mean NDVI	Pattern Suggests	Priority
1	Fairway 7, landing zone	0.8 ac	0.42 (field 0.61)	Irrigation head coverage gap	High
2	Fairway 7, right edge	0.3 ac	0.51	Early drought stress	Medium
3	Green 12 collar	900 ft ²	0.55, declining	Compaction / traffic wear	Monitor

What we recommend

Area 1 shows the concentric signature of an irrigation coverage gap rather than disease; an audit of the two heads serving that zone is the cheap first check. Area 2 tracks the prevailing-wind edge and is worth a hand-watering cycle while it is still invisible from the tee. Green 12's collar is a traffic pattern; consider rotating the walk-off. Verify with a soil probe before treating; the data tells you where to probe, not what to spray.

The month-over-month play

A single scan finds problems. A monthly series proves trends: which areas respond to treatment, which decline ahead of summer heat, and what the course looked like before and after any renovation. Superintendents use the series in budget conversations the same way HOA boards use our thermal documentation, as evidence, not opinion.

Sample note: in a live engagement this page carries your course's actual per-hole tiles, GPS-tagged problem areas, and a comparison against the prior scan. Dawn flights finish before the first tee time; play is never interrupted.